



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
23.04.1997 Bulletin 1997/17

(51) Int Cl.<sup>6</sup>: **H03H 21/00, G10K 11/178**

(43) Date of publication A2:  
05.07.1995 Bulletin 1995/27

(21) Application number: 94309209.8

(22) Date of filing: 09.12.1994

(84) Designated Contracting States:  
DE FR GB IT NL

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(30) Priority: 14.12.1993 US 166698

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(54) **Active adaptive control system with spectral leak**

(57) An active adaptive control system introduces a control signal from an output transducer (14) to combine with the system input signal (6) and yield a system output signal (8). An adaptive filter model (40) has an output (46) supplying a correction signal to the output transducer to introduce the control signal. The model has a first error input (44, 232, 248) driven by an error signal from an error transducer (16) to drive the correction signal.

nal toward a value matching the system input signal to modify and/or cancel same. The model has a second error input (202, 224, 240, 268, 280) selectively driven by a spectral leak signal (212) to drive the correction signal away from such matching value by driving the correction signal towards zero, to selectively constrain performance of the model in response to a given condition of a given parameter.

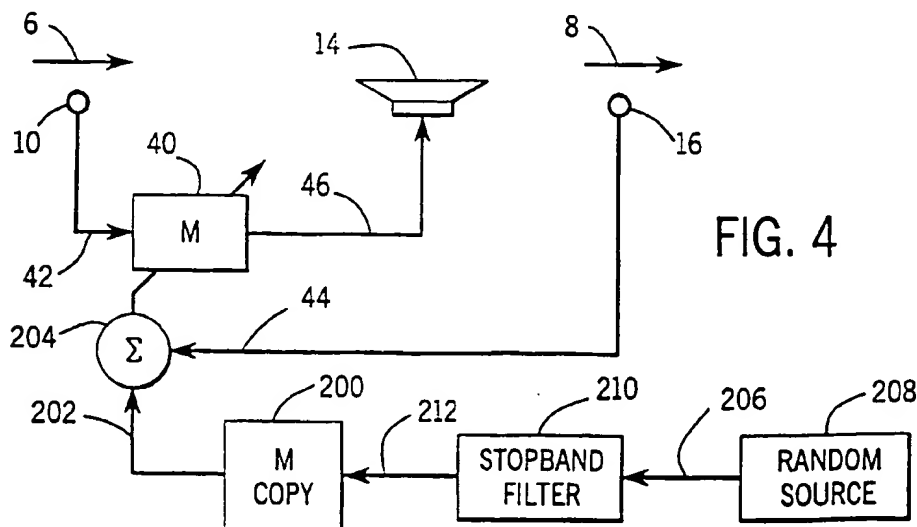


FIG. 4



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 94 30 9209

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	WO 93 15501 A (ACTIVE NOISE & VIBRATION TECH) 5 August 1993 * page 12, line 9 - line 22 * ---	1	H03H21/00 G10K11/178
D,A	US 4 677 676 A (ERIKSSON LARRY J) 30 June 1987 * column 16, line 9 - column 17, line 62; figures 19,20 * -----	1,10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G10K H03H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 February 1997	Examiner D/L PINTA BALLE., L
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document</p> <p>T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding document</p>			

EPO FORM 1501 (04/01)